

IN THE CLAIMS

Please amend Claim 12 and add new Claims 21-24 as follows.

12. (Amended) A heat exchanger comprising:

a core portion having a plurality of tubes and a plurality of outer fins made of a first aluminum alloy, the tubes and the outer fins being alternately laminated; and

a tank separately formed from the tubes, the tank into which one end of each of the tubes is inserted, wherein:

each of the tubes is produced by the following method:

Bl uniformly work-hardening a two-layer aluminum alloy plate to form a work-hardened plate, the two-layer aluminum alloy plate having a core made of a second aluminum alloy including manganese and sacrifice anode layer clad on one side of the core and made of a third aluminum alloy which is electro-chemically base with respect to the second aluminum alloy; and

forming a tube by bending the work-hardened plate so that the sacrifice anode layer is disposed to face a corrosive fluid and the core is disposed to face a non-corrosive fluid.

21. (New) A heat exchanger comprising:


Bl a core portion having a plurality of tubes and a plurality of outer fins made of a first aluminum alloy, the tubes and the outer fins being alternately laminated; and

a tank into which one side ends of the tubes are inserted, wherein:

the tube is formed from a two-layer aluminum alloy plate that has a core made of a second aluminum alloy including manganese and a sacrifice anode layer clad on one side of the core, the sacrifice anode layer being made of a third aluminum alloy that is electro-chemically base with respect to the second aluminum alloy; and

the two-layer aluminum alloy plate is bent to construct the tube, such that the sacrifice anode layer faces a corrosive fluid and the core faces a non-corrosive fluid.

22. (New) The heat exchanger according to Claim 21, wherein the outer fins are corrugated fins having a plurality of folds, each of the folds having a flat top through which each of the outer fins is joined to the tubes.

 23. (New) The heat exchanger according to Claim 22, further comprising

a brazing material that is applied in a substantially straight line to a join surface between the flat tops of the outer fins and the tubes.

24. (New) The heat exchanger according to Claim 22, further comprising

a brazing material that is applied in stripes to join portions between the flat tops of the outer fins and the tubes.